

July 6–11

Vancouver, Canada

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**The Eighteenth (2008) International
Offshore (Ocean) and Polar
Engineering Conference**

AND

**1st ISOPE Frontier Energy Resources
(FER-2008) Symposium**

**6th ISOPE High-Performance Materials
(HPM-2008) Symposium**

**2nd ISOPE Strain-Based Design
(SBD-2008) Symposium**

ISOPE-2008

Sheraton Vancouver Wall Center Hotel
Vancouver, Canada; July 6–11

Technical Program

Refereed papers from 48 countries in 114 sessions and
5 plenary sessions

General Information, Reservations, Publication, Author
Index and Program Updates on www.isopec.org

Forms for Advance Registration and Venue Hotel:

Inside this program and on www.isopec.org

Organized by:

Technical Program Committee, ISOPE

Sponsored by:

**International Society of Offshore and Polar Engineers
(ISOPE)**

with cooperating organizations (list inside)



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TECHNICAL PROGRAM

The Eighteenth (2008) International Offshore and Polar Engineering Conference Vancouver, Canada, July 6–11, 2008

The number at end of the session title indicates the tentative number of the proceedings volume. Only the changes on titles or authors the ISOPE-2008 Technical Program Committee (TPC) received in writing before [January 22, 2008](#) are reflected in this program. Final corrections will be updated in the Conference Proceedings of peer-reviewed papers and the Final Program. Proceedings CD-ROM ([ISBN 978-1-880653-70-8](#)) will be available as a set of 4 volumes (3,600 pp. est.) from ISOPE during and after the Conference.

Proceedings papers are **indexed** by [Engineering Index](#) and [Compendex](#) and others.

SUNDAY, July 6

Conference Reception

17:00

Pavilion Ballroom and Foyer, 3F

MONDAY 09:00

1. OFFSHORE AND ARCTIC REVIEW — 2008 (V. 1)

Monday July 7 09:00 Grand Ballroom

Chair: Isaacson, M, University of British Columbia, Canada

Co-Chair: Naito, S, Osaka University, Japan

Opening Address

Koterayama, W, Professor, ISOPE President, Kyushu Univ., Kasuga, Japan

What's Really Happening with Canada's Arctic Sea Ice?

Bancroft, D, Director, Canadian Ice Service, Environment Canada, Canada

Underwater Autonomous Sensing Technologies at the Office of Naval Research

Herr, F L, Department Head, Office of Naval Research, USA

Beyond Easy Oil – What Lies Ahead for Energy?

Kapusta, S, Chief Scientist, Shell Global Solutions International, The Netherlands

Development of the Far East and Zabaikalye of Russia Till 2013

Levdanskyi, A Y, Chairman, Oil & Gas Association of Far East, Russia

MONDAY 13:00

Monday **Plenary Presentation I (V.2)**
July 7 13:00 Jr Ballroom C
Strain-based Design: 2007 Review
Lillig, D B, ExxonMobil Development Co, USA
Introduction by Wang, Y-Y, Center for Reliable Energy Systems, USA

TUESDAY 12:00

Student Forum
All Student Participants Are Invited.
Tuesday July 8 12:10 Port Abernrie
E-mail by **June 1** your intention of attending this meeting to
meetings@isope.org.
Advisors: Dr. Stefan Herion, Germany, Dr. Sung Tai Kee, Korea; and
Prof. Harovel G. Wheat, USA

TUESDAY 13:00

Tuesday **Plenary Presentation II (IJOPE)**
July 8 13:00 Pavilion D
2008 Jin S Chung Award Lecture:
Nonlinear Response of Offshore Structure to High Seas
Kim, C H, Texas A&M Univ, USA
Introduction by Koterayama, W, Kyushu University, Japan

WEDNESDAY 13:00

Wednesday **Plenary Presentation III (V.1)**
July 9 13:00 Jr Ballroom D
Synergies between VLFS Hydroelasticity and Sea-ice Research
Squire, V A, Univ of Otago, New Zealand
Introduction by Jin S Chung, ISOPE, USA

Wednesday **Plenary Presentation IV (V.2)**
July 9 13:00 Pavilion D
Start-up and Operation of the Ormen Lange Flowlines
Burns, C, Lorimer, S E, Pradhan, V, Norske Shell, Norway; Henkes, R,
Shell Global Solutions, The Netherlands; Hartenhof, M, Norske Shell;
Vanvik, T, SPT Group, Norway
Introduction by Paulsen, G, Reinertsen A/S, Norway